

SEQUENCE LISTING

(1) GENERAL INFORMATION:

(i) APPLICANT:

- (A) NAME: RHONE POULENC RORER S.A.
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(ii) TITLE OF INVENTION: CONDITIONAL EXPRESSION SYSTEM

(iii) NUMBER OF SEQUENCES: 26

(iv) COMPUTER READABLE FORM:

- (A) MEDIUM TYPE: Tape
(B) COMPUTER: IBM PC compatible
(C) OPERATING SYSTEM: PC-DOS/MS-DOS
(D) SOFTWARE: PatentIn Release #1.0, Version #1.30 (EPO)

(2) INFORMATION FOR SEQ ID NO: 1:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 19 base pairs
(B) TYPE: nucleotide
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:

TCTCTATCAC TGATAGGGA

19

(2) INFORMATION FOR SEQ ID NO: 2:

(i) SEQUENCE CHARACTERISTICS:

5

- (A) LENGTH: 17 base pairs
- (B) TYPE: nucleotide
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

10

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:

TATCACCGCA AGGGATA

17

(2) INFORMATION FOR SEQ ID NO: 3:

(i) SEQUENCE CHARACTERISTICS:

15

- (A) LENGTH: 74 amino acids
- (B) TYPE: amino acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(iii) HYPOTHETICAL: NO

20

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:

Lys Lys Pro Leu Asp Gly Glu Tyr Phe Thr Leu Gln Ile Arg Gly Arg
1 5 10 15
Glu Arg Phe Glu Met Phe Arg Glu Leu Asn Glu Ala Leu Glu Leu Lys
20 25 30
5 Asp Ala Gln Ala Gly Lys Glu Pro Gly Gly Ser Arg Ala His Ser Ser
35 40 45
His Leu Lys Ser Lys Lys Gly Gln Ser Thr Ser Arg His Lys Lys Leu
50 55 60
Met Phe Lys Thr Glu Gly Pro Asp Ser Asp
10 65 70

(2) INFORMATION FOR SEQ ID NO: 4:

(i) SEQUENCE CHARACTERISTICS:

- 15 (A) LENGTH: 768 base pairs
(B) TYPE: nucleotide
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

20 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:

TTACTCGCGG CCCAGCCGGC CATGGCCCAG GTGCAGCTGC AGCAGTCTGG GGCAGAGCTT 60
GTAAGGTCAG GGGCCTCAGT CAAGTTGTCC TGCACAGCTT CTGGCTTCAA CATTAAAGAC 120
TACTATATGC ACTGGGTGAA GCAGAGGCCT GAACAGGGCC TGGAGTGGAT TGGATGGATT 180
GATCCTAAGA ATGGTGATAC TGAATATGCC CCGAAGTTCC AGGGCAAGGC CACTATGACT 240
25 GCAGACACAT CCTCCAATAC AGCCTACCTG CAGCTCAGCA GCCTGGCATC TGAGGACACT 300
GCCGTGTATT ATTGTAATTT TTACGGGGAT GCTTTGGACT ATTGGGGCCA AGGGACCACG 360

GTCACCGTCT CCTCAGGTGG AGGCGGTTCA GCGGAGGTG GCTCTGGCGG TGGCGGATCG 420
GATGTTTTGA TGACCCAAAC TCCACTCACT TTGTCGGTTA CCATTGGACA ACCAGCCTCC 480
ATCTCTTGCA AGTCAAGTCA GAGCCTCTTG GATAGTGATG GAAAAACATA TTTGAATTGG 540
TTGTTACAGA GGGCAGGCCA GTCTCCAAAG CGCCTAATCT ATCTGGTGTC TAAACTGGAC 600
5 TCTGGAGTCC CTGACAGGTT CACTGGCAGT GGATCAGGGA CAGATTTTAC ACTTAAAATC 660
AACAGAGTGG AGGCTGAGGA TTTGGGAGTT TATTATTGCT GGCAAGGTAC ACATTCTCCG 720
CTTACGTTCT GTGCTGGCAC CAAGCTGGAA ATTAAACGGG CGGCCGCA 768

(2) INFORMATION FOR SEQ ID NO: 5:

(i) SEQUENCE CHARACTERISTICS:

- 10 (A) LENGTH: 15 amino acids
(B) TYPE: amino acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

- 15 (iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser

1 5 10 15

20 (2) INFORMATION FOR SEQ ID NO: 6:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 30 base pairs
(B) TYPE: nucleotide
(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

5 (ix) FEATURE:

(A) NAME/KEY: CDS

(B) LOCATION: 1..30

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:

10 CCC AAG CCC AGT ACC CCC CCA GGT TCT TCA
Pro Lys Pro Ser Thr Pro Pro Gly Ser Ser
1 5 10

30

(2) INFORMATION FOR SEQ ID NO: 7:

(i) SEQUENCE CHARACTERISTICS:

15 (A) LENGTH: 18 base pairs
(B) TYPE: nucleotide
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(iii) HYPOTHETICAL: NO

20 (iv) ANTI-SENSE: NO

(ix) FEATURE:

- (A) NAME/KEY: CDS
- (B) LOCATION: 1..18

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:

5 ATG AAC CGG CTG GGC AAG

18

Met Asn Arg Leu Gly Lys

1

5

(2) INFORMATION FOR SEQ ID NO: 8:

(i) SEQUENCE CHARACTERISTICS:

10

- (A) LENGTH: 33 base pairs
- (B) TYPE: nucleotide
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

15

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(ix) FEATURE:

- (A) NAME/KEY: CDS
- (B) LOCATION: 1..33

20

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:

GAA CAA AAA CTC ATC TCA GAA GAG GAT CTG AAT

33

Glu Gln Lys Leu Ile Ser Glu Glu Asp Leu Asn

1

5

10

(2) INFORMATION FOR SEQ ID NO: 9:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 7 amino acids

(B) TYPE: amino acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:

Pro Lys Lys Lys Arg Lys Val

1

5

(2) INFORMATION FOR SEQ ID NO: 10:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 66 base pairs

(B) TYPE: nucleotide

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:

GGCTCTAGAC CCAAGCCCAG TACCCCCCA GGTTCCTCAA CGCGTGGATC CATGTCCAGA 60
TTAGATAAAA GTAAAG 66

(2) INFORMATION FOR SEQ ID NO: 11:

- 5 (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 51 base pairs
 - (B) TYPE: nucleotide
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

10 (ii) MOLECULE TYPE: cDNA

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11:

CGTACGGAAT TCGGGCCCTT ACTCGAGGGA CCCACTTTCA CATTAAAGTT G 51

15 (2) INFORMATION FOR SEQ ID NO: 12:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 66 base pairs
 - (B) TYPE: nucleotide
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
- 20

(ii) MOLECULE TYPE: cDNA

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 12:

GGCTCTAGAC CCAAGCCCAG TACCCCCCA GGTTCCTCAA CGCGTGGATC CATGGAACAA 60
5 CGCATAACCC TGAAAG 66

(2) INFORMATION FOR SEQ ID NO: 13:

(i) SEQUENCE CHARACTERISTICS:

10 (A) LENGTH: 51 base pairs
(B) TYPE: nucleotide
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

15 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 13:

CGTACGGAAT TCGGGCCCTT ACTCGAGTGC TGTTGTTTTT TTGTTACTCG G

(2) INFORMATION FOR SEQ ID NO: 14:

(i) SEQUENCE CHARACTERISTICS:

20 (A) LENGTH: 35 base pairs
(B) TYPE: nucleotide
(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

5 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 14:

CAGGCCATGG CATGAAGAAA CCACTGGATG GAGAA

35

(2) INFORMATION FOR SEQ ID NO: 15:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 43 base pairs

(B) TYPE: nucleotide

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

10

(ii) MOLECULE TYPE: cDNA

(iii) HYPOTHETICAL: NO

15

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 15:

CGTCGGATCC TCTAGATGCG GCCGCGTCTG AGTCAGGCCC TCC

43

Sequence data not available

(2) INFORMATION FOR SEQ ID NO: 16:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 31 base pairs

(B) TYPE: nucleotide

5 (C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

10 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 16:

CAGGCTCGAG AAGAAACCAC TGGATGGAGA A

31

(2) INFORMATION FOR SEQ ID NO: 17:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 61 base pairs

15 (B) TYPE: nucleotide

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(iii) HYPOTHETICAL: NO

20 (iv) ANTI-SENSE: NO

Sequence data not available

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 17:

CAGGCTCGAG CCCAAGCCCA GTACCCCCC AGGTTCTTCA AAGAAACCAC TGGATGGAGA 60
A 61

(2) INFORMATION FOR SEQ ID NO: 18:

5 (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 37 base pairs
- (B) TYPE: nucleotide
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

10 (ii) MOLECULE TYPE: cDNA

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 18:

GGTCGAATTC GGGCCCTCAG TCTGAGTCAG GCCCTTC 37

15 (2) INFORMATION FOR SEQ ID NO: 19:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 29 base pairs
- (B) TYPE: nucleotide
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

20 (ii) MOLECULE TYPE: cDNA

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 19:

CAGGCCATGG AGGAGCCGCA GTCAGATCC

29

5 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 18:

GGTCGAATTC GGGCCCTCAG TCTGAGTCAG GCCCTTC

37

(2) INFORMATION FOR SEQ ID NO: 20:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 46 base pairs

(B) TYPE: nucleotide

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 20:

CGTCGGATCC TCTAGATGCG GCCGCCACGG GGGGAGCAGC CTCTGG

46

(2) INFORMATION FOR SEQ ID NO: 21:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 66 amino acids
- (B) TYPE: amino acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

5 (ii) MOLECULE TYPE: peptide

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 21:

Met Glu Gln Arg Ile Thr Leu Lys Asp Tyr Ala Met Arg Phe Gly Gln
10 1 5 10 15
Thr Lys Thr Ala Lys Asp Leu Gly Val Tyr Gln Ser Ala Ile Asn Lys
20 25 30
Ala Ile His Ala Gly Arg Lys Ile Phe Leu Thr Ile Asn Ala Asp Gly
35 40 45
15 Ser Val Tyr Ala Glu Glu Val Lys Pro Phe Pro Ser Asn Lys Lys Thr
50 55 60
Thr Ala
65

(2) INFORMATION FOR SEQ ID NO: 22:

20 (i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 23 base pairs
(B) TYPE: nucleotide
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

25 (ii) MOLECULE TYPE: cDNA

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 22:

GATCCTATCA CCGCAAGGGA TAA

23

5 (2) INFORMATION FOR SEQ ID NO: 23:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 23 base pairs

(B) TYPE: nucleotide

(C) STRANDEDNESS: double

10

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 23:

15 GATAGTGGCG TTCCTATTT CGA

23

(2) INFORMATION FOR SEQ ID NO: 24:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 48 base pairs

(B) TYPE: nucleotide

20

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

Sequence data not available

(ii) MOLECULE TYPE: cDNA

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 24:

5 GATCCGACTT TCACTTTTCT CTATCACTGA TAGTGAGTGG TAAACTCA

48

(2) INFORMATION FOR SEQ ID NO: 25:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 48 base pairs

(B) TYPE: nucleotide

10 (C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

15 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 25:

AGCTTGAGTT TACCACTCCC TATCAGTGAT AGAGAAAAGT GAAAGTCG

48

(2) INFORMATION FOR SEQ ID NO: 26:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 96 base pairs

20 (B) TYPE: nucleotide

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(iii) HYPOTHETICAL: NO

5 (iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 26:

GATCCGACTT TCACTTTTCT CTATCACTGA TAGTGAGTGG TAACTCACT AGGCTCAAAG

60

TGAAAAGAGA TAGTGACTAT CACTCACCAT TTGAGT

96

60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100